Work Order ID 68681

Tuesday, April 19, 2011 4:04:07 PM



Page 1

Item ID:

D3391-023

Accept



Setup Start



Stop

Revision ID: Item Name: Start Date:

Mid Tube Assembly

4/19/2011

Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: MX

Date: //-04-19. Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID** Operation Description Set Up/ Run Hours

Tool # Plan

Accept Qty Code

Reject Qty

. 22**

Reject Number Stamp

Insp.

Draw Nbr

Revision Nbr

D3391

Required Date: 5/13/2011

Rev H

100

Skidtubes Skidtubes

Skidtubes

Memo

0.00

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker.

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297" (20 holes) as per Dwg D3391



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W/O:			WC	RK ORDER CHANG	ES						
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NCR:		\	WORK ORDI	ER NON-CONFORM	ANCE	(NCR))			Approval	
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Work Order ID 68681

Tuesday, April 19, 2011 4:04:08 PM



Page 2

Item ID:

D3391-023

Accept

Setup Start

Stop

Start

Stop



Revision ID:

Item Name: Mid Tube Assembly

Start Date:

4/19/2011 Start Qty: 1.00

Required Date: 5/13/2011

Reg'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

QC:

Date: Date: ____ Tooling:

SPC (Y/N):

Tool ID

Date:

Date:

Tool # Plan

Accept Qty Code

Reject Qty

Run

Reject Number

Insp. Stamp

Sequence ID/ Work Center ID Operation Description Set Up/ **Run Hours**

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

W/O:			W	ORK ORDER CHANGE	S			1
DATE	STEP	PROC	EDURE CH	ANGE	Ву	Date	Qty Approval Chief Eng / Prod Mgr	Approval QC inspector.
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Work Order ID -68681

Tuesday, April 19, 2011 4:04:08 PM



Page 3

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Mid Tube Assembly Item Name:

Start Oty: 1.00

Cust Item ID:

Stop

Start Date:

4/19/2011 Required Date: 5/13/2011

Req'd Qty: 1.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

0.00

Date:

Run

Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

110

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ **Run Hours** Tool ID

Tool # Plan Code

Accept Reject .Qty Qty

Reject Number Stamp

120

Hand Finishing

HandFinish

Chemical Conversion Coat per QS1005 4.1

0.00

0.00

130

QC3-Inspect Part Finish

0.00

Memo

Memo

0.00

Quality Control

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Page 4

Tuesday, April 19, 2011 4:04:08 PM

D3391-023

Accept



Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

4/19/2011

Start Oty: 1.00

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop

Required Date: 5/13/2011

QC:

Date: _____

SPC (Y/N):

Date:

Stop

1 8 BG 11/04/

1 8 85 11/0/28

Sequence ID/ Work Center ID

140

Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours** 0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

Memo

1-Open float bag holes as per dwg

2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

0.00

SAD 11-04-27

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

0.00

160

Skidtubes

Skidtubes

0.00

Memo

Memo

0.00

Skidtubes

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

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W/O:			V	ORK ORDER CHANGES	.			
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DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval
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Work Order ID 68681

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Page 5

Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

4/19/2011

QC:

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

Date:

Tool ID

Run

Start



Required Date: 5/13/2011

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ **Work Center ID**

170

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours**

Tool # Plan Accept Qty Code

Reject Qty

Reject Number Stamp

Insp.

180

Quality Control

QC5-Inspect part completeness to step on W/O

0.00

0:00

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

Memo

0.00

0.00

AND REALODINE AS PER PAR09-043

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W/O:			W	ORK ORDER CHANGI	ES					•
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Work Order ID 68681

Tuesday, April 19, 2011 4:04:08 PM



Page 6

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

4/19/2011

Start Qty: 1.00

Required Date: 5/13/2011 Req'd Qty: 1.00

Date:

Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Tool ID

Date:

Tool # Plan

Code

Date:

Start

Reject

Qty

Run

Accept

Qty



Stop

Number Stamp

Insp.

Reject

Sequence ID/ Work Center ID

190

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

M116961.

START TIME: 1 OVEN TEMPERATURE

Run Hours 0.00

Set Up/

0.00

FINISH TIME:

200

Quality Control

QC3-Inspect Part Finish

Memo

0.00 0.00

W/O:			W	ORK ORDER CHANG	ES			······································	•
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Page 7 Tuesday, April 19, 2011 4:04:08 PM Item ID: D3391-023 Accept Setup Start Revision ID: Stop Mid Tube Assembly Item Name: Start Date: 4/19/2011 Start Oty: 1.00 **Cust Item ID:** Required Date: 5/13/2011 Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: Date: Tooling: Approvals: Date: Stop SPC (Y/N): QC: Date: Date: Sequence ID/ Operation Tool ID Tool # Plan Reject Set Up/ Accept Reject Insp. Work Center ID Qty Qty Number Stamp Description Run Hours Code 210 0.00 Skidtubes 0.00 Skidtubes Memo Skidtubes 1- insert D3391-021 into D3391-23 2-insert T-pins into first and third fwd saddle holes .3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364 4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415 6- deburr, re-alodine and blow out chips 7- press fit D359I-1 spacers using DT9416 starting from 0.500" side 220 QC5-Inspect part completeness to step on W/O 0.00 S Woylzs

Memo

0.00

Quality Control

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W/O:			WO	RK ORDER CHANG	iES	***************************************				*
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	R	esolution:	Disposition	:	QA:	N/C Clo	sed:		Date:	
NCR:			WORK ORDE	R NON-CONFORM	ANCE	(NCR)			
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Work Order ID 68681

Required Date: 5/13/2011

Tuesday, April 19, 2011 4:04:08 PM



Page 8

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

4/19/2011

Start Qty: 1.00

Reg'd Oty: 1.00



Date: _____

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling: SPC (Y/N): Date:

Date:

Start

Stop



Sequence ID/

Work Center ID

230

HandFinish Hand Finishing Operation Description

HandFinishing

Memo

Memo

Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan Accept Qty Code

Reject Qty

Run

Reject Number

BR 11-4-29

Insp. Stamp

0.00

240

Quality Control

QC5- Inspect part completeness to step on W/O

Identify as per dwg & Stock Location: w/o

Install Inserts as per Dwg

250

Packaging

Memo

0.00 D412-742-043/B68643

Packaging

0.00

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W/O:			N	ORK ORDER CHANG	GES	***************************************			
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Work Order ID 68681

Page 9

Item ID:

Tuesday, April 19, 2011 4:04:08 PM

Accept



Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

4/19/2011

D3391-023

Start Qty: 1.00

Reg'd Oty: 1.00

Operation

Description



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date: _____

SPC (Y/N):

Set Up/

Run Hours

Tooling:

Date:

Run

Start

Stop



Stop

Sequence ID/

Work Center ID

260

Required Date: 5/13/2011

Quality Control

Memo

QC21- Final Inspection - Work Order Release

0.00

Tool ID

Date:

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

0.00

11-04-29

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W/O:			W	ORK ORDER CHANG	SES			•
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Picklist Print

Tuesday, April 19, 2011 4:04:01 PM

Work Order ID: 68681

D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 4/19/2011

Required Date: 5/13/2011

Start Oty: 1.00

Required Qty: 1.00

Comments:

Parent Item:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

KJ/EC 🗆 $EC\Box$

rev F dwg 07.03.20

EC

IPP D 07.03.28 re-format

EC

IPP E 07.10.31 ecn 1053P

EC

verified by: EC

IPP Rev:F ECN 1056 07-11-13 DD IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

Manufactured

IPP Rev: 1 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP

Rev:J add in seg 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No			100	Each	104.0000	1	1			



Skidtube Extrusion							
			Location	Loc	c Qty	Loc Code	$\mathcal{L}(\mathbf{r})$
			HALL		104		
			37065		22	(C)	11-4-26
			50251	•	82		***************************************
D3391-021	Manufactured	No		100	Each	0.0000	1 1
			-				
Fwd Tube Assembly			B666	200)		11-4-27
D3389-1	Manufactured	No		140	Each	0.0000	
	1/14114144						
						1111111	111 - 15994

160



Web

D3681-1



Spacer

Location	Loc Qty	Loc Code
LG001	9	
65990	9	

32

No

Each

9.0000

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Picklist Print

Tuesday, April 19, 2011 4:04:01 PM

Work Order ID: 68681

Parent Item:

D3391-023/

Parent Item Name: Mid Tube Assembly



Start Date: 4/19/2011

Required Date: 5/13/2011

Required Qty: 1.00

Start Qty: 1.00

D3591-1



Manufactured

210

Each 59.0000

Bushing

Location

ST068 66147 Loc Qty 59 22 37 Each Loc Code

2

BR 11-4-29

ALS4-1032-130

Purchased

No

230

1,950.000

20

20

Insert

Location

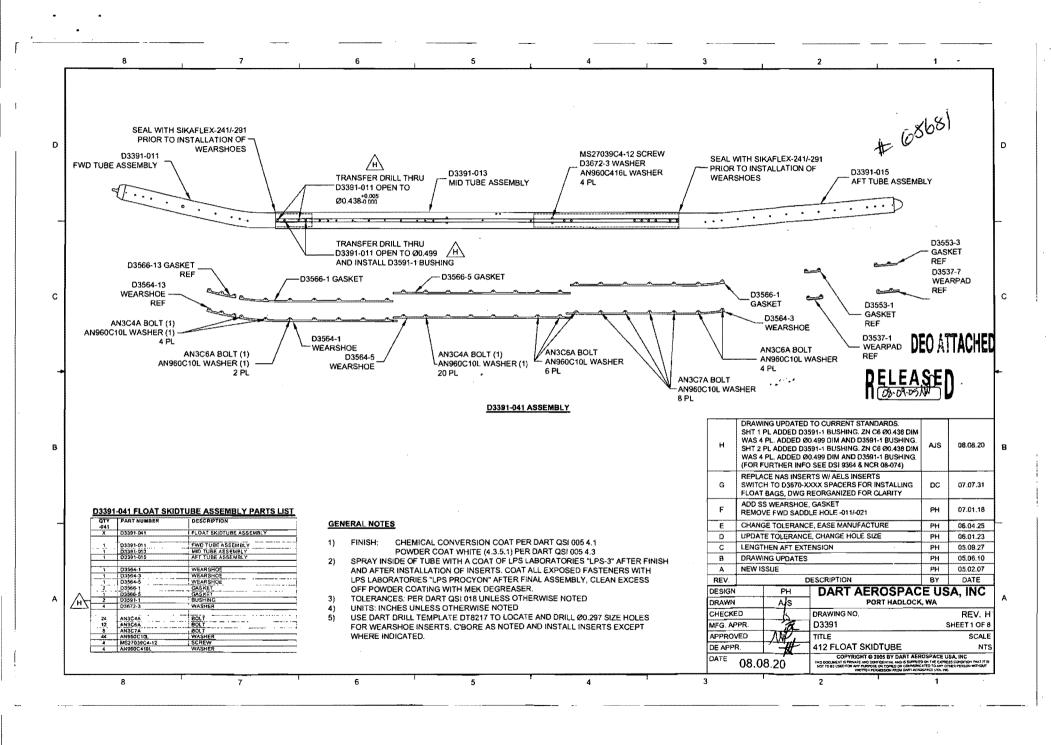
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Loc Qty

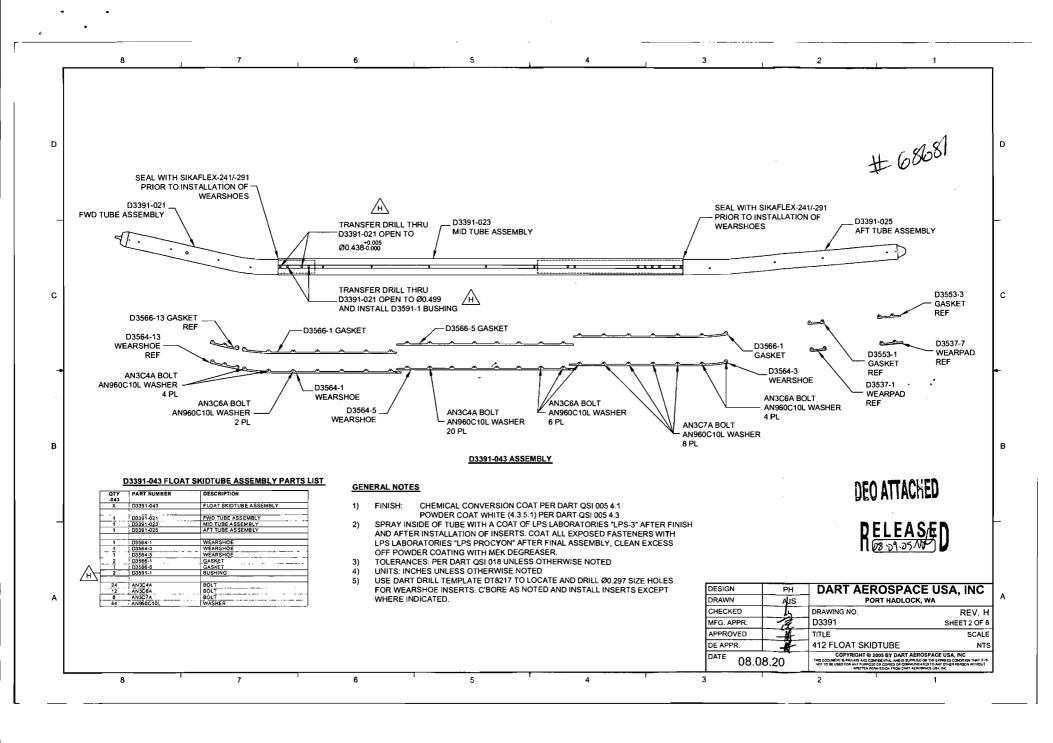
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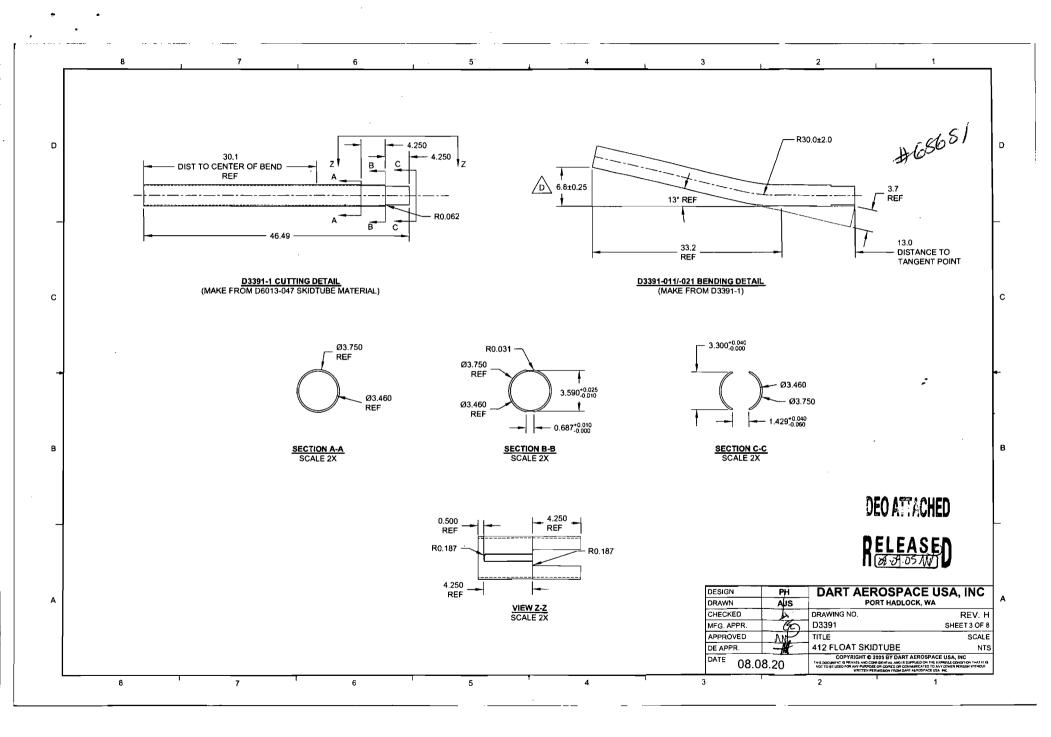
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DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector
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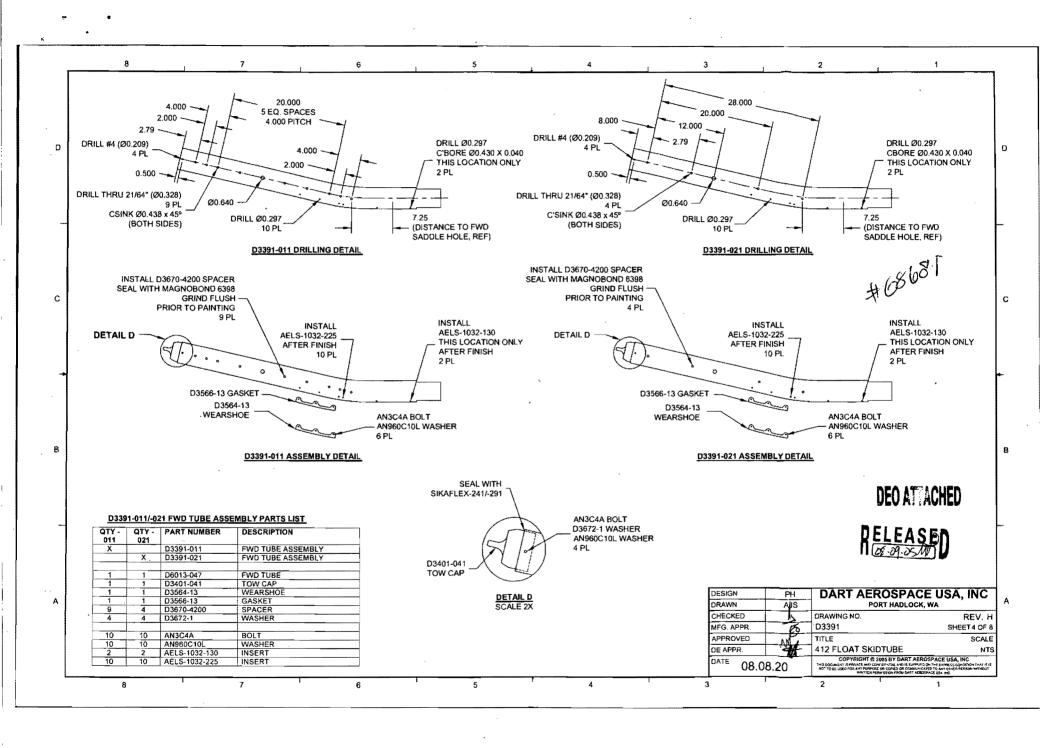
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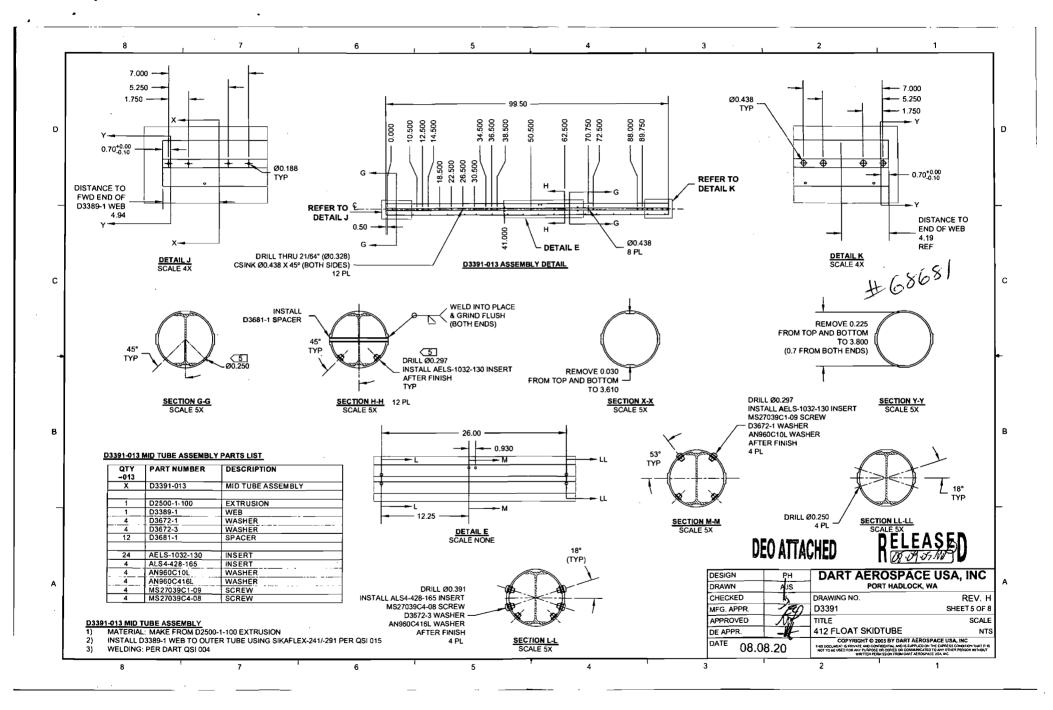
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D.47F	0777	Description of NG		Corrective Action Section			Verific	cation	Approval	Approval
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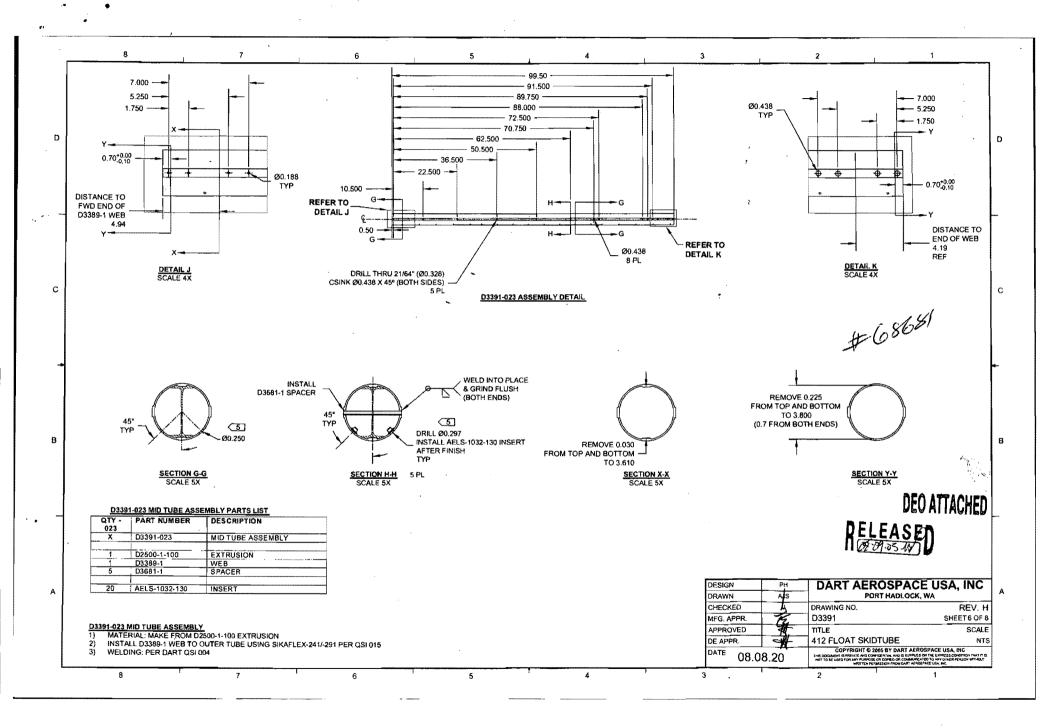
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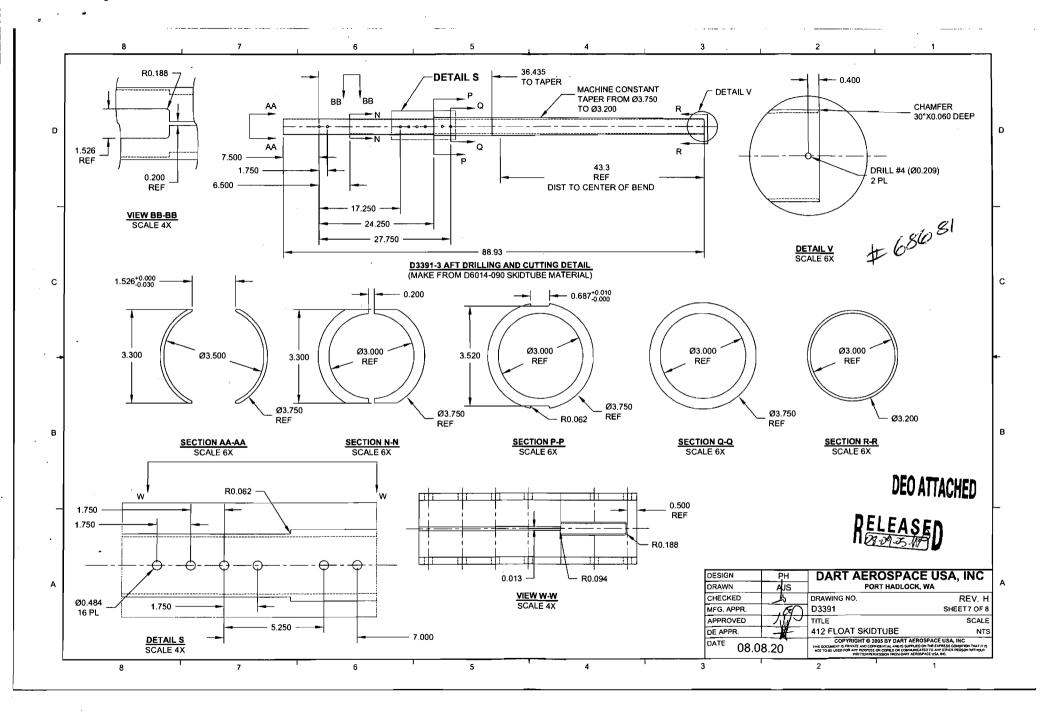


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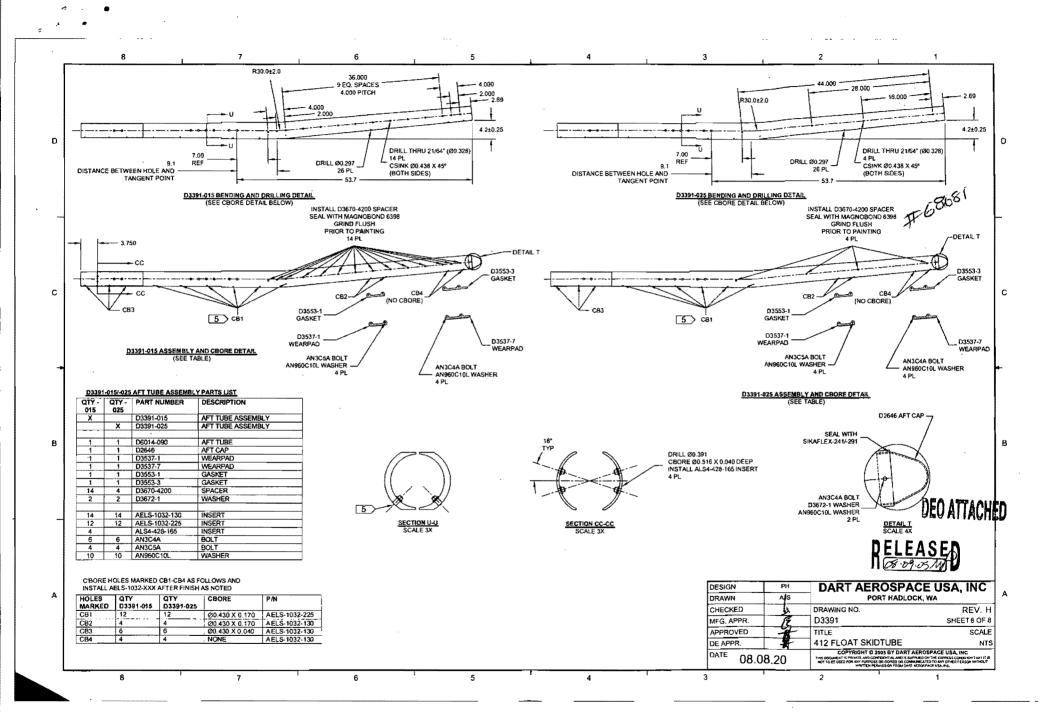


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PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



68681

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NO. ₹250_

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Za	erclay Elliott	
ob number:	686 7 9	
Part number:	<u>) 3391 - O2 3</u>	
Description:_	339/	
Welding Proce	ess: Tig[X] Mig[]	
Base materiel:		
Current: AC	DC[]	
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TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[\frac{\frac{1}{2}}{2}]	fail[] fail[]
<u>UNACCEPTABLE</u>		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[X] pass[X] pass[X] pass[X] pass[X] pass[X]	fail[] fail[] fail[] fail[] fail[]
Qualifier () () () () () () () () () (est Coupon //-04-28

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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